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BOROUGH OF CREWE

ANNUAL REPORT

OF THE

Medical Officer of Health

AND THE

Chief Public Health Inspector

FOR THE YEAR 1967

D. G. CRAWSHAW, M.B., Ch.B., D.C.H., D.P.H.
Medical Officer of Health

JOHN GASKELL, M.Inst., P.C., F.R.S.H., F.A.P.H.I.
Chief Public Health Inspector

BOROUGH OF CREWE

ANNUAL REPORT

of the

MEDICAL OFFICER OF HEALTH

and the

CHIEF PUBLIC HEALTH INSPECTOR

1967

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BOROUGH OF CREWE

HEALTH COMMITTEE

(Membership as at 31st December, 1967)

Chairman:

Councillor Mrs. K. Talbot

Members:

THE WORSHIPFUL THE MAYOR -

F. Holme,Esq., ex-officio

Alderman A.J. Beckett

Alderman W.R. Foulkes

Alderman H. Kent

Alderman H.L. Shore

Councillor S.S. Bayman

Councillor J.M. Bedson

Councillor A.E. Booth

Councillor Mrs. S.A. Clarke

Councillor T.G. Hamilton

Councillor Mrs. B.J. Holt

Councillor E. Leighton

Councillor Mrs. J. McGarrigle

Councillor Mrs. A. Young

BOROUGH OF CREWE

MEDICAL OFFICER'S OFFICE

D.G. CRAWSHAW, M.B.,Ch.B.,D.C.H.,D.P.H., Medical Officer of Health (part-time with Cheshire C.C.)

C. BENNETT, D.M.A., Chief Clerk (part-time with Cheshire C.C.) (1.2.4.5.6.)

MRS. J.M. COOKE, Clerk (part-time with Cheshire C.C.)

CHIEF PUBLIC HEALTH INSPECTOR'S DEPARTMENT

J. GASKELL (1.2.4.5.6.7.)	Chief Public Health Inspector Inspector under the Diseases of Animals Acts
R.E. PLATT (1.2.6.)	Deputy Chief Public Health Inspector
D.W. COOKE (1.2.5.6.)	Public Health Inspector
R.D. COLLIER (1.2.5.)	Public Health Inspector
E.H. PEET (1.2.)	Public Health Inspector
F.E. WESTON (3)	Public Health Inspector
D.S. WHITE (8)	Technical Assistant
B. JOYNSON	Pupil Public Health Inspector (resigned September, 1967)
P.H. WILLIAMS	Pupil Public Health Inspector
R.J. BLEASE	Chief Administrative Assistant
G.E. LATHAM	Clerk (commenced February, 1967)
MRS. J. ADAMS	Shorthand Typist
MISS J. WARBURTON	Shorthand Typist

1. Public Health Inspector's Certificate (Royal Society of Health and Public Health Inspector's Examination Joint Board).
2. Meat and Food Inspector's Certificate of the Royal Society of Health
3. Diploma of Public Health Inspector's Education Board for appointment as Public Health Inspector.
4. Certificate in Sanitary Science as applied to Buildings and Public Works of the Royal Society of Health.
5. Smoke Inspector's Certificate of the Royal Society of Health.
6. Testamur of the Institute of Public Cleansing.
7. Associate Membership Examination of the Institution of Public Health Engineers.
8. Full Technological Certificate in Building.

To the Mayor, Aldermen and
Councillors of the Borough of Crewe October, 1968.

I have the honour to present to you my report on the health of the Borough of Crewe for the year 1967.

VITAL STATISTICS

During 1967, 12 infants died before reaching the age of 1 year and the infantile mortality rate of 13.71 per 1,000 live births is the lowest ever recorded. 8 of these babies died during the first week of life. The total number of births (875) shows a further small fall on the 1966 figure (898). The illegitimate live birth rate is 8.8% of the total live births and after several years near the national average figure shows a return towards the 1964 rate of nearly 9%, although the total number of illegitimate births in 1967 at 77, was 13 less than in 1964. The corrected live birth rate (16.86) is again lower than the national figure for England and Wales (17.2).

The total number of deaths, 635 is higher than the ten year average figure which is about 600 and is comparable, as our population remains approximately static. The corrected death rate, 14.04 is high compared with the national figure for England and Wales 11.2. 219 of these deaths occurred to persons aged 75 years or over, 18 were attributed to accidents, 6 of these being motor vehicle accidents, and 5 persons committed suicide. Of the 128 deaths attributed to cancer, 25 were primary lung cancers.

INFECTIOUS DISEASES

Measles notifications, 199 in number shows a fall on the 1966 figure. No case of poliomyelitis, diphtheria or meningococcal infection was notified, and two persons were notified as suffering from dysentery.

I remain,
Your obedient servant,
D.G. CRAWSHAW.

STATISTICS AND SOCIAL CONDITIONS OF THE AREA

GENERAL STATISTICS

Area (Census 1961)	4,386 acres
Population (Census 1961)	53,394
Registrar General's Estimated Population 1967 ...	52,400
Number of Inhabited Houses (1st April, 1967)	17,415
Rateable Value (1st April, 1967)	£1,960,945
Sum Represented by Penny Rate	£7,751. 10. 9d.

VITAL STATISTICS FOR THE YEAR 1967

MOTHERS & INFANTS

LIVE BIRTHS

Number	Males	Females	Total
Legitimate	416	382	798
Illegitimate	35	42	77
	451	424	875

Rate per 1,000 population 16.7

Illegitimate Live Births (per cent. of total live births) 8.8%

STILLBIRTHS

Number	Males	Females	Total
Legitimate	7	6	13
Illegitimate	-	1	1
	7	7	14

Rate per 1,000 Total Live and Stillbirths 16.96

Total Live and Stillbirths

Males	Females	Total
458	431	889

Infant Deaths (deaths under one year)

Males	Females	Total
7	5	12

INFANT MORTALITY RATES

Total infant deaths per 1,000 total live births	13.71
Legitimate infant deaths per 1,000 legitimate live births	11.42
Illegitimate infant deaths per 1,000 illegitimate live births	25.98

NEO-NATAL MORTALITY RATE

(Deaths under 4 weeks per 1,000 total live births) ... 9.0

EARLY NEO-NATAL MORTALITY RATE

(Deaths under 1 week per 1,000 total live births) ... 9.0

PERINATAL MORTALITY RATE

(Stillbirths and deaths under 1 week combined per 1,000 total live and stillbirths) 24.74

MATERNAL MORTALITY (including abortion)

Number of deaths ... ... nil

DEATHS - GENERAL

REGISTERED DEATHS

Males	Females	Total
354	281	635

DEATH RATE

(Deaths per 1,000 population) 12.1

BIRTH RATES, DEATH RATES, ANALYSIS OF MORTALITY MATERNAL MORTALITY AND CASE RATES FOR CERTAIN INFECTIOUS DISEASES IN THE YEAR 1967

(Provisional figures based on weekly and quarterly return)

	CREWE
	Rates per 1,000 of the population
BIRTHS -	
Live	16.7
Still	0.27
DEATHS -	
All causes	12.1
Typhoid & Paratyphoid Fevers	-
Whooping Cough	-
Diphtheria	-
Tuberculosis (all forms)	0.057
Influenza	0.133
Smallpox	-
Acute Poliomyelitis, including Polioencephalitis	-
Pneumonia (including pneumonia of Newborn)	0.61
	Rates per 1,000 Live Births
Under 1 year of age (all causes)	13.71
Gastro-Enteritis, Colitis (except ulcerative) and Diarrhoea under 2 years of age	-
	Rates per 1,000 of the Population
NOTIFICATIONS (corrected) -	
Typhoid Fever	-
Paratyphoid Fever	-
Meningococcal Infection	-
Scarlet Fever	0.49
Whooping Cough	1.03
Diphtheria	-
Erysipelas	-
Smallpox	-
Measles	3.79
Acute Poliomyelitis including Polioencephalitis	
Paralytic	-
Non-Paralytic	-
Food Poisoning	-
Puerperal Pyrexia	0.019
Ophthalmia Neonatorum	-
Dysentery	0.038
Pneumonia	-

A dash (-) signifies that there were no deaths or notifications.

BIRTH RATES, DEATH RATES, ANALYSIS OF MORTALITY MATERNAL MORTALITY, AND CASE RATES FOR CERTAIN INFECTIOUS DISEASES

IN THE YEAR 1967

(continued)

Comparison of certain rates with those for England and Wales.

COMPARABILITY FACTORS

Births	Deaths
1.01	1.16

	Crewe	England and Wales
Per 1,000 Home Population Live Births	16.7	
Live Births (corrected by comparability factor)	16.86	17.2
Deaths (all causes) actual	12.1	
Deaths (all causes) (corrected by comparability factor)	14.04	11.2
Per 1,000 total (Live and Still) Births Stillbirths	16.96	14.8
Per 1,000 Live Births Deaths under 1 year of age	13.71	18.3

COMPARATIVE STATISTICS 1957 - 1967

Year	Estimated Population	Live Births		Stillbirths		Deaths		Infant Deaths				Maternal Deaths			
												Number			
		No.	Rate per 1,000 Estimated Population	No.	Rate per 1,000 Estimated Population	No.	Rate per 1,000 Estimated Population	Under 4 weeks	4 wks to 12 mths	Total	Rate per 1,000 Live Births	Sepsis	Other	Total	Rate per 1,000 Total Births
1957	51,490	785	15.2	20	24.84	576	11.2	14	7	21	26.8	-	-	-	-
1958	51,370	791	15.4	29	35.3	616	12.05	11	8	19	24.02	-	2	2	2.4
1959	51,200	841	16.4	17	19.8	599	11.7	11	4	15	17.8	-	1	1	1.2
1960	51,320	910	17.7	28	29.8	540	10.5	16	3	19	20.9	-	-	-	-
1961	53,730	919	17.1	21	22.3	702	13.1	12	5	17	18.5	-	-	-	-
1962	53,580	958	17.8	15	15.4	655	12.22	8	21	29	30.27	-	1	1	1.02
1963	53,180	995	18.7	26	19.2	621	11.67	17	10	27	27.13	-	1	1	0.979
1964	52,950	1023	19.3	24	22.9	616	11.63	14	10	24	23.46	-	1	1	0.955
1965	52,870	975	18.4	23	23.0	657	12.43	8	8	16	16.41	-	-	-	-
1966	52,600	898	17.07	19	20.71	661	12.56	17	8	25	27.83	-	1	1	1.090
1967	52,400	875	16.7	14	16.96	635	12.1	8	4	12	13.71	-	-	-	-

CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1967 IN THE MUNICIPAL BOROUGH OF CREWE

CAUSE OF DEATH	Sex	Total All Ages	Under 4 Weeks	4 Weeks & Under 1 year	Age In Years								
					1-	5-	15-	25-	35-	45-	55-	65-	75+
1. Tuberculosis, Respiratory	M	3	-	-	-	-	-	-	-	2	-	1	-
	F	-	-	-	-	-	-	-	-	-	-	-	-
10. Malignant Neoplasm, Stomach	M	9	-	-	-	-	-	-	-	-	4	4	1
	F	9	-	-	-	-	-	-	-	-	1	3	5
11. Malignant Neoplasm, Lung, Bronchus	M	19	-	-	-	-	-	-	3	1	9	6	-
	F	6	-	-	-	-	-	-	1	-	4	-	1
12. Malignant Neoplasm, Breast	M	1	-	-	-	-	-	-	-	-	-	-	1
	F	11	-	-	-	-	-	-	-	2	6	-	3
13. Malignant Neoplasm, Uterus	F	5	-	-	-	-	-	-	1	1	1	2	-
14. Other Malignant & Lymphatic Neoplasms	M	38	-	-	-	-	-	-	1	3	5	17	12
	F	26	-	-	-	1	-	-	-	3	6	9	7
15. Leukaemia, Aleukaemia	M	2	-	-	-	-	-	-	-	1	-	-	1
	F	2	-	-	-	-	-	-	1	-	-	-	1
16. Diabetes	M	-	-	-	-	-	-	-	-	-	-	-	-
	F	2	-	-	-	-	-	-	-	-	-	2	-

Cont'd

CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1967 IN THE MUNICIPAL BOROUGH OF CREWE

CAUSE OF DEATH	Sex	Total All Ages	Under 4 Weeks	4 Weeks & Under 1 Year	Age In Years								
					1-	5-	15-	25-	35-	45-	55-	65-	75+
17. Vascular Lesions of Nervous System	M	42	-	-	-	-	-	-	-	2	3	19	18
	F	48	-	-	-	-	-	-	-	7	5	17	19
18. Coronary Disease, Angina	M	92	-	-	-	-	-	-	6	14	28	31	13
	F	36	-	-	-	-	-	-	-	1	9	13	13
19. Hypertension with Heart Disease	M	6	-	-	-	-	-	-	-	-	3	3	-
	F	3	-	-	-	-	-	-	-	1	-	1	1
20. Other Heart Disease	M	21	-	-	-	-	-	-	2	1	2	5	11
	F	24	-	-	-	-	-	-	-	1	2	7	14
21. Other Circulatory Disease	M	10	-	-	-	-	-	-	-	2	4	2	2
	F	17	-	-	-	-	1	-	-	2	-	6	8
22. Influenza	M	2	-	-	-	-	-	-	-	-	-	2	-
	F	5	-	-	-	-	-	-	-	-	1	-	4
23. Pneumonia	M	18	-	1	-	-	-	-	-	-	3	6	8
	F	14	-	-	-	-	-	-	-	-	2	4	8
24. Bronchitis	M	42	-	-	-	-	-	-	-	1	10	19	12
	F	7	-	-	-	-	-	-	1	1	1	3	1

Cont'd

CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1967 IN THE MUNICIPAL BOROUGH OF CREWE

CAUSE OF DEATH	Sex	Total All Ages	Under 4 Weeks	4 Weeks & Under 1 year	Age In Years								
					1-	5-	15-	25-	35-	45-	55-	65-	75+
25. Other Diseases of Respiratory System	M	2	-	-	-	-	-	-	-	-	1	1	-
	F	1	-	-	-	-	-	-	-	1	-	-	-
26. Ulcer of Stomach and Duodenum	M	3	-	-	-	-	-	-	-	-	1	1	1
	F	4	-	-	-	-	-	-	-	-	1	-	3
27. Gastritis, Enteritis & Diarrhoea	M	2	-	-	1	-	-	-	-	-	-	1	-
	F	1	-	-	-	-	-	-	-	-	-	-	1
28. Nephritis and Nephrosis	M	1	-	-	-	-	-	-	-	1	-	-	-
	F	-	-	-	-	-	-	-	-	-	-	-	-
31. Congenital Malformations	M	3	2	1	-	-	-	-	-	-	-	-	-
	F	1	1	-	-	-	-	-	-	-	-	-	-
32. Other Defined and Ill-Defined Diseases	M	21	2	1	-	-	-	-	-	-	2	3	13
	F	52	2	1	1	-	1	-	1	1	1	8	36
33. Motor Vehicle Accidents	M	5	-	-	1	-	2	-	2	-	-	-	-
	F	1	-	-	-	-	1	-	-	-	-	-	-

Cont'd

CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1967 IN THE MUNICIPAL BOROUGH OF CREWE

CAUSE OF DEATH	Sex	Total All Ages	Under 4 Weeks	4 Weeks & Under 1 Year	Age In Years								
					1-	5-	15-	25-	35-	45-	55-	65-	75+
34. All Other Accidents	M	8	-	-	1	-	-	-	-	2	3	2	-
	F	4	1	-	-	-	-	-	-	-	1	1	1
35. Suicide	M	3	-	-	-	-	-	-	1	1	-	1	-
	F	2	-	-	-	-	-	-	1	1	-	-	-
36. Homicide and Operations of War	M	1	-	-	-	1	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL ALL CAUSES	M	354	4	3	3	1	2	-	15	31	78	124	93
	F	281	4	1	1	1	3	-	6	22	41	76	126

DEATHS OF CREWE INFANTS UNDER 1 YEAR OF AGE DURING 1967

CAUSE OF DEATH	Under 1 Day	DAYS									MONTHS											ALL
		1	2	3	4	5	6	7	14	21 to 28	1	2	3	4	5	6	7	8	9	10	11 to 12	
Pneumonia	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
Congenital Malformations	2	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	5
Other Defined & Ill Defined Diseases	1	2	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	6
TOTAL	3	2	1	-	1	-	1	-	-	-	2	1	1	-	-	-	-	-	-	-	-	12

NOTIFIED INFECTIOUS DISEASES 1967 : Civilian (Corrected in cases of revised diagnosis)

	Under 1 year	1-2 years	2-3 years	3-4 years	4-5 years	5-10 years	10-15 years	15-20 years	20-25 years	25-35 years	35-45 years	45-65 years	Over 65 years	Total
Scarlet Fever	-	-	-	2	5	15	1	-	-	-	-	-	-	23
Whooping Cough	3	7	7	10	9	15	2	1	-	-	-	-	-	54
Measles	10	26	37	33	34	51	3	4	1	-	-	-	-	199
Dysentery	-	-	-	-	1	-	-	-	-	-	-	-	1	2
Puerperal Pyrexia	-	-	-	-	-	-	-	1	-	-	-	-	-	1
TOTAL	13	33	44	45	49	81	6	6	1	-	-	-	1	279

TUBERCULOSIS

Particulars of New Cases of Tuberculosis and Deaths During 1967

Age Period	New Cases				Deaths			
	Pulmonary		Non-Pulmonary		Pulmonary		Non-Pulmonary	
	M	F	M	F	M	F	M	F
Under 1 year	-	-	-	-	-	-	-	-
1 year - 4 years	1	-	-	-	-	-	-	-
5 years - 9 years	-	-	-	-	-	-	-	-
10 years - 14 years	-	-	-	-	-	-	-	-
15 years - 19 years	-	-	1	-	-	-	-	-
20 years - 24 years	-	-	-	-	-	-	-	-
25 years - 34 years	-	1	-	-	-	-	-	-
35 years - 44 years	-	-	-	-	1	-	-	-
45 years - 54 years	-	1	-	-	-	-	-	-
55 years - 64 years	-	1	-	-	-	-	-	-
65 +	-	-	-	-	1	1	-	-
Total	1	3	1	-	2	1	-	-

Particulars of New Cases and Deaths During the Last Five Years

Year	New Cases		Deaths	
	Pulmonary	Non-Pulmonary	Pulmonary	Non-Pulmonary
1963	8	3	2	-
1964	12	1	6	-
1965	13	-	4	-
1966	6	-	9	-
1967	4	1	3	-

The following tabulated summary indicates the number of cases remaining on the register at 31st December, 1967.

	Pulmonary		Non-Pulmonary	
	M	F	M	F
No. of cases on Register of Notifications on 1st January, 1967	85	52	8	5
No. of cases notified for the first time during the year	1	3	1	-
No. of cases transferred from other districts	-	-	-	-
No. of cases restored to Register	1	1	-	-
No. of cases removed from Register during the year on account of having				
(a) Recovered	11	10	1	-
(b) Removed from district	1	3	-	-
(c) Died	2	1	-	-
(d) Diagnosis not established	-	1	-	-
(e) Lost sight of	1	1	2	-
No. of cases remaining on the Register on 31st December, 1967.	72	40	6	5

Of the 3 cases listed under (c) above, none died from tuberculosis. All 3 cases died from other primary causes.

VACCINATION AND IMMUNISATION

Vaccination Against Smallpox

The number of primary vaccinations of persons under 16 years of age reported to me during the year was 270, showing a decrease of 17 on the previous year.

		Age at date of vaccination						
		Months			Years			
	0-3	3-6	6-9	9-12	1	2-4	5-15	Total
Vaccinated	2	18	25	5	110	93	17	270
Re-Vaccinated	-	-	-	-	-	-	1	1

Diphtheria Immunisation

During the year notifications received from Medical Practitioners showed that 793 children were immunised against diphtheria. In addition, 432 children received a boosting dose to improve their immunity.

The corresponding figures for 1966 were 669 and 305.

No case of diphtheria was notified during 1967, and it is now 17 years since a case of diphtheria has been notified in the Borough.

Diphtheria, Whooping Cough, Tetanus and Poliomyelitis Vaccinations of Persons under 16 years of age Completed During 1967

A. Completed Primary Courses - Number of persons under age 16.

Type of vaccine or dose	Year of birth					Others under age 16	Total	
	1967	1966	1965	1964	1960 -63		At clinics	By G.P's
Quadruple DTPP	-	1	-	-	1	-	-	2
Triple DTP	218	411	52	23	44	7	-	755
Diphtheria/ Pertussis	-	-	-	-	-	-	-	-
Diphtheria/ Tetanus	-	12	3	1	16	4	-	36
Diphtheria	-	-	-	-	-	-	-	-
Pertussis	-	-	-	-	-	-	-	-
Tetanus	-	-	4	-	18	55	-	77
Salk	-	-	-	-	-	-	-	-
Sabin	154	429	69	22	83	6	-	763

B. Reinforcing Doses - Number of persons under age 16.

Type of vaccine of dose	Year of birth					Others under age 16	Total	
	1967	1966	1965	1964	1960 -63		At Clinics	By G.P's
Quadruple DTPP	-	-	-	-	-	-	-	-
Triple DTP	-	8	28	6	194	3	-	239
Diphtheria/ Pertussis	-	-	-	-	-	-	-	-
Diphtheria/ Tetanus	-	4	31	6	136	15	-	192
Diphtheria	-	-	-	-	72	-	71	1
Pertussis	-	-	-	-	-	-	-	-
Tetanus	-	-	-	-	3	12	-	15
Salk	-	-	-	-	-	-	-	-
Sabin	-	4	51	10	386	17	84	384

MEDICAL EXAMINATIONS

During the year 301 persons were medically examined. Of these 78 were examined in conjunction with the Corporation's Superannuation and Sickness Pay Scheme, 170 were County Staff or persons seeking entry into a Training College and 53 were of persons applying for a Taxi Driver's Licence.

MORTUARY FACILITIES

The Corporation Mortuary was closed on 1st January, 1962, and the arrangements made with the South Cheshire Hospital Management Committee have continued entirely satisfactorily. During the year the Corporation paid fees in respect of 81 bodies received at the Crewe Memorial Hospital Mortuary.

CREWE AND DISTRICT COMMITTEE FOR MORAL WELFARE WORK

The Reverend A.C. Gould has supplied the following information on the work of the Committee during 1967.

It must however, be borne in mind that the Committee's activities cover a larger area than the Borough of Crewe.

"There were 122 applications for help and advice. Of these, 75 were maternity cases. 38 of the babies born were adopted, whilst 29 mothers kept their babies. Six babies were taken into care and one baby died. Of 47 other enquiries for advice, most concerned adoption and family problems.

We have as usual to be grateful to the Local Authorities, Doctors, Nurses, Health Visitors, Health Department and others who have in many ways supported us so well."

FOOD POISONING

No case of food poisoning was notified during the year.

ANNUAL REPORT OF

THE CHIEF PUBLIC HEALTH INSPECTOR

FOR THE YEAR 1967

Chief Public Health Inspector's
Department,
Municipal Buildings,
CREWE.

30th September, 1968.

To the Mayor, Aldermen and
Councillors of the Borough
of Crewe.

Mr. Mayor, Ladies and Gentlemen,

I have the honour to present my twentieth - and last - annual report on the work of the Crewe Public Health Inspector's Department.

The work of the department has again progressed satisfactorily throughout the year and as is shown in the following report, has been concerned with maintenance of good living conditions by virtue of the abatement of nuisances, progress towards the demolition of unfit houses and the improvement of others. Food hygiene and Clean air have also again received major attention.

It is pleasing to note that since 1955 satisfactory progress has been made with the clearance of unfit dwellings and work has commenced on the Council's fourth clearance programme, over 1,400 houses having been so far dealt with. On the other side of the picture, the number of applications approved by the Council for improvement grants has now reached 500. Much effort has been put recently into this part of the department's activities from which it is hoped future benefit will accrue.

The Council's fourth smoke control order was made on the 1st March, 1967. This brought the total of domestic premises in such orders to over 5,400 and represents some 30% of the houses in the Borough.

The department continued to co-operate with the Ministry of Technology (formerly the Department of Scientific and Industrial Research) in recording smoke and sulphur dioxide concentrations, and in this respect was fortunate in receiving the continued assistance of the staff of British Railways (Midland Region) Laboratory at Crewe.

In conclusion I would like to take the opportunity of thanking the elected representatives, officers and staff of the department for their encouragement and support during my term of office.

I have the honour to be,

Your obedient servant,

J. GASKELL,

Chief Public Health Inspector.

SANITARY CIRCUMSTANCES OF THE AREA

PUBLIC CLEANSING

The removal of household and trade refuse is based on a weekly collection service and with the exception of holiday periods, this frequency of collection was maintained generally throughout the Borough.

The Cleansing Department operates a Refuse Disposal Plant and has a separate Garage and Workshop.

Twelve vehicles (including two spare vehicles) are employed on the collection of household and trade refuse and nightsoil, in addition to one vehicle used in connection with refuse disposal.

Household refuse collected	12,341 tons
Trade refuse collected	2,128 tons
Total refuse collected by the Department during the year	14,469 tons

2,850 tons of shop and factory refuse were also brought to the Refuse Disposal Works for disposal, making a total of 17,319 tons of refuse dealt with during the year. 63.7% of the total refuse passed through the works while the remainder was disposed of by controlled tipping.

The estimated amount of nightsoil collected during the year was 156 tons.

A separate Annual Report is issued for the Public Cleansing service in the Borough.

SANITARY ACCOMMODATION

There are still a number of privy pails in the Borough, situated in the present unsewered northern area of the town.

WATER SUPPLY

The water supply to the district is provided by the Mid and South East Cheshire Water Board. The water is not plumbo-solvent and all dwelling houses are supplied direct from the mains.

Mr. Delwyn Davies, B.Sc.(Eng) M.I.C.E., M.I.W.E., A.M.B.I.M., Chief Officer of the Board has supplied the following information relating to the supply.

The water supplied to the Borough has been satisfactory both in quality and in quantity. Regular bacteriological examinations were made of the treated water, all of which were satisfactory.

It contains no fluoride and is not plumbo-solvent.

A copy of a typical chemical analysis of the water delivered to Crewe from Hurleston is given below:

Source of supply to consumers	R. Dee Hurleston Works
Daily volume in million gallons	6 to 7
No. of samples and period over which they have been collected	43 in 12 months (3.1.67. - 11.12.67 inclusive)
Colour	not more than 5 Hazen
Reaction pH	from 7.4 to 8.5
Electrical conductivity at 25°	from 190 to 466 umhos
Hardness as cCa CO_3	
Total	from 71 to 205 ppm.
Non-carbonate	from 29 to 100 ppm.
Alkalinity as Ca CO_3	from 40 to 114 ppm.
Chlorides expressed as chlorine	from 16.0 to 35.0 ppm.
Ammoniacal nitrogen	up to 0.01 ppm.
Albuminoid nitrogen	from 0.05 to 0.18 ppm.
Nitrate nitrogen	from $<$0.1 to 2.7 ppm.
Oxygen absorbed from permanganate in 4 hrs. at 27°C	from 0.54 to 2.11 ppm.
Iron	from 0.01 to 0.04 ppm.
Manganese	less than 0.01 ppm.
Aluminium	from 0.01 to 0.3 ppm.
Residual chlorine	from 0.1 to 0.35 ppm.

33 samples of water taken from premises throughout the Borough were also submitted by my department for bacteriological and chemical examination and all proved satisfactory.

NUMBER AND NATURE OF COMPLAINTS

The Department received 1,503 complaints during the year from householders, shopkeepers and others relating to numerous matters, as set out in the table below.

NATURE OF COMPLAINT

Disrepair -	General	117
	Defective chimneys and firegrates	19
	Plasterwork	3
	Floors	6
	Roofs	32
	Eaves, gutters and spoutings	31
Burst water pipes		27
Dampness		23
Defective water closets		33
Choked drains		319
Flooding		14
Yards and passages		12
Accumulations		64
Dirty premises		2
Vermin		57
Beetles and cockroaches		28
Ants		82
Rats		374
Mice		120
Pigeons		5
Foul and obnoxious odours		34
Smoke nuisances		9
Water supply		23
Abandoned cars		9
Miscellaneous		60
		1,503

INSPECTIONS

Nature of Inspections made	Number	Number of Notices served		Result of Notices served		Prosecutions
		Informal	Statutory	Complied with	Remaining in hand	
Dwellinghouses (P.H. Act)	485	246	103	259	90	-
Dwellinghouses (Hsg. Act)	657	-	-	-	-	-
Rapid Housing Survey	910	-	-	-	-	-
Improvement Grants	641	-	-	-	-	-
Rent Act Certificates	28	-	-	-	-	-
Back to back houses	-	-	-	-	-	-
Verminous Houses	69	1	-	1	-	-
Tents, vans and sheds	50	4	-	4	-	-
Yards and passages	84	-	-	-	-	-
Drains and sewers	1535	-	496	496	-	-
Ditches and watercourses	26	-	-	-	-	-
Offensive accumulations	97	2	-	2	-	-
Keeping of Animals	28	-	-	-	-	-
Offensive trades	97	-	-	-	-	-
Places where food is prepared or sold	964	112	-	65	47	-
Factories -						
with mechanical power	77	3	-	2	1	-
with no mechanical power	11	-	-	-	-	-
Workplaces	8	-	-	-	-	-
Outworkers	6	-	-	-	-	-
Common Lodging Houses	-	-	-	-	-	-
Shops under Shops Act	51	2	-	2	-	-
Offices, Shops and Railway Premises Act	377	97	-	46	51	-
Clean Air	2993	9	-	9	-	1
Infectious Diseases - (enquiries & revisits)	26	-	-	-	-	-
Houses re. overcrowding	12	-	-	-	-	-
Milk samples (bact.exam)	130	-	-	-	-	-
Ice cream samples	19	-	-	-	-	-
Water supply and samples	200	-	-	-	-	-
Food & Drugs (including samples)	207	-	-	-	-	1
Applicants for Corporation houses	80	-	-	-	-	-
Rodent control	128	-	-	-	-	-
Miscellaneous	1484	-	-	-	-	-
Re-inspections	1375	-	-	-	-	-
TOTALS	12855	476	599	886	189	2

INFECTIOUS DISEASE AND DISINFECTION

Number of premises visited where a notifiable disease has occurred		21
Number of Library Books disinfected -		
(a) from Public Library	25	
(b) from Private Libraries	-	... 25

DISINFESTATION

The following table shows the number of premises treated during 1967.

	Number found to be infested		Number of Premises Disinfested
	Premises	Rooms	
Council Houses	7	25	7
Other Houses	6	24	6
Cases confirmed after complaint of infestation	11	-	-
Cases found by Public Health Inspectors	2	-	-
Houses disinfested by Corporation	-	-	13
Houses disinfected by Contractors	-	-	-

The work of disinfestation was carried out by the use of D.D.T. and patent fumigant solutions.

In addition to the premises listed above, 125 houses were treated for infestations of beetles, ants, etc.

SWIMMING BATHS

The only Public Swimming Baths in the Borough are owned by the Corporation and contain two swimming pools, slipper and private wash baths and various other amenities.

During the year, 92 samples of bath water were submitted for bacteriological and chemical examination and 14 samples proved unsatisfactory, but subsequent samples proved satisfactory.

OFFENSIVE TRADES

The following offensive trades are carried on in the Borough.

Rag and Bone Dealers	2
Gut Scrapers	1
Bone Boiler and Fat Extractor...	1

In addition to the above, 42 persons are registered under the Scrap Metal Dealers Act 1964.

RAG FLOCK

Number of licensed premises used for the manufacture of, or storage of Rag Flock	-
Number of registered premises where filling materials are used	1

COMMON LODGING HOUSES

There are no common Lodging Houses in the Borough.

HOUSING STATISTICS

Number of New Houses erected during the year:

(1)	By the Local Authority	111
(2)	By other Authorities	Nil
(3)	By other bodies or persons	45

1. Inspection of Dwelling Houses during the year:

(1) (a) Total number of houses inspected for housing defects (under Public Health Act or Housing Act) -

(i)	On General Inspection	256	
(ii)	Slum Clearance	227	
	Total		483

(b) Number of inspections made for the purpose -

(i)	General Inspections	485	
(ii)	Slum Clearance	657	
	Total		1142

(2) (a) Number of dwelling houses (included under the sub-heading (1) above) which were inspected and recorded under the Housing Consolidation Regulations, 1925 -

(i)	General Inspections	12	
(ii)	Slum Clearance	215	
	Total		227

(b) Number of inspections made for the purpose -

(i)	General Inspections	22	
(ii)	Slum Clearance	635	
	Total		657

(3) Number of dwelling houses found to be in a state so dangerous or injurious to health as to be unfit for habitation -

(i)	General Inspections	12	
(ii)	Slum Clearance	215	
	Total		227

Housing Statistics, cont.

(4) Number of dwelling houses (exclusive of those referred to under the preceding sub-heading) found not to be in all respects reasonably fit for human habitation	258

2. Remedy of Defects during the year without service of Formal Notices

Number of defective dwelling houses rendered fit in consequence of informal action by the Local Authority or their officers	182

3. Action under Statutory Powers during the Year

(a) Proceedings under Section 9 and 10 of the Housing Act 1957 -

(1) Number of dwelling houses in respect of which notices were served requiring repairs	Nil
(2) Number of dwelling houses which were rendered fit after service of formal notices -	
(a) By owners...	Nil
(b) By Local Authority in default of owners...	Nil

(b) Proceedings under Public Health Acts -

(1) Number of dwelling houses in respect of which notices were served requiring defects to be remedied...	103
(2) Number of dwelling houses in which defects were remedied after service of formal notices -	
(a) By owners...	75
(b) By Local Authority in default of owners...	2

(c) Proceedings under Sections 16 and 17 of the Housing Act, 1957 -

(1) Number of dwelling houses in respect of which demolition orders were made	9
(2) Number of dwelling houses demolished in pursuance of demolition orders	2

Housing Statistics, cont.

3.	(c)	(3)	Number of undertaking to carry out works in lieu of demolition accepted by the Council	Nil
		(4)	Number of dwelling houses in respect of which closing orders were made	3

4. Housing Act 1957 - Part IV - Overcrowding

(a)	(1)	Number of dwellings overcrowded at end of year	2
	(2)	Number of families dwelling therein	2
	(3)	Number of persons dwelling therein	20
(b)		Number of new cases of overcrowding reported during the year	1
(c)	(1)	Number of cases of overcrowding relieved during the year	2
	(2)	Number of persons concerned in such cases	21
(d)		Particulars of any cases in which dwelling houses have again become overcrowded after the local authority have taken steps for the abatement of overcrowding	-

HOUSING CLEARANCE PROGRAMME

The following table shows the progress made since 1955 to the end of the year with the Slum Clearance Programmes

Description of Property	No. of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	No.of families rehoused 3/11/55 - 31/12/67	No.of properties demolished to 31/12/67
	'Pink'	'Grey'				
1. CLEARANCE AREAS:						
West Ward No. 2 (Naylor Street) Compulsory Purchase Order 1956	87	-	5/6/56	5/4/57	79	87
West Ward No. 3 (Stafford Street) Clearance Order 1957	8	-	5/6/56	19/6/57	7	8
Central Ward No. 4 (Foundry Street) Clearance Order 1957	15	-	4/6/57	11/3/58	13	15
North Ward No. 8 (Earle Street) Clearance Order 1957	7	-	4/6/57	19/11/57	7	7
North Ward No. 9 (Martin Street) Clearance Order 1957	15	-	13/8/57	8/7/58	13	15
South Ward No. 2 (Railway Street) Clearance Order 1957	18	-	13/8/57	22/9/58	18	18
West Ward No. 4 (Stafford Street and Henshaw Street) Clearance Order 1958	10	-	4/6/58	9/7/59	10	10
South Ward No. 3 (Mill Street) Clearance Order 1958	6	-	12/8/58	8/5/59	4	6
c/f	166	-	-	-	151	166

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	No. of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	No.of families rehoused 3/11/55 - 31/12/67	No. of properties demolished to 31/12/67
	'Pink'	'Grey'				
b/f	166	-	-	-	151	166
Central Ward No. 5 (Lockitt Street) Clearance Order, 1958	15	-	12/8/58	19/5/59	14	15
North Ward No. 10 (Davenport Street) Clearance Order 1958	14	-	12/8/58	8/4/59	13	14
North Ward No. 11 (Broad Street) Clearance Order 1958	12	-	12/8/58	14/4/59	12	12
North Ward No. 12 (Broughton Road) Clearance Order 1958	3	-	12/8/58	8/4/59	3	3
North Ward No. 13 (Sydney Road) Clearance Order 1958	2	-	7/10/58	8/4/59	3	2
West Ward No. 5 (Alexandra Street) Compulsory Purchase Order 1959	83	2	7/4/59	12/9/60	85	85
West Ward No. 6 (Orchard Place) Clearance Order 1959	20	-	2/6/59	21/7/60	19	20
Central Ward No. 6 (Liverpool Street/ Forge Street) Compulsory Purchase Order 1961	186	3	12/4/60	5/10/61	171	189
Central Ward No. 7 (Bank Street/ Lockitt Street) Compulsory Purchase Order 1961	45	-	4/8/61	5/4/62	39	45
c/f	546	5	-	-	510	551

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	No. of Properties in Area		Date of Represent-ation of Report	Date of Confirm-ation of Order	No. of families rehoused 3/11/55 - 31/12/67	No. of properties demolished to 31/12/67
	'Pink'	'Grey'				
b/f	546	5	-	-	510	551
South Ward No. 4 (Mill Street) Compulsory Purchase Order 1962	2	-	10/4/62	30/10/62	2	2
Central Ward No. 10 (Chester Street West) Clearance Order 1962	2	-	10/4/62	2/11/62	2	2
Central Ward No. 11 (John Street) Clearance Order 1962	2	-	10/4/62	4/1/63	2	2
West Central Ward No. 1 (Peel Street) Clearance Order 1962	8	-	10/4/62	17/1/63	7	8
West Central Ward No. 2 (Dale Street) Clearance Order 1962	6	-	10/4/62	2/11/62	6	6
West Central Ward No. 3 (West Street/ Stafford Street) Compulsory Purchase Order 1962	64	8	10/4/62	9/4/63	55	71
North East Ward No. 1 (Chapel Lane) Clearance Order 1962	10	-	10/4/62	18/10/62	7	10
Central Ward No. 12 (Oakley Street/ Beech Street) Compulsory Purchase Order 1963	59	4	9/4/63	12/5/64	50	58
Central Ward No. 15 (Oakley Street/ Beech Street) Clearance Order 1963	19	-	9/4/63	12/5/64	14	19
c/f	718	17	-	-	655	729

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	No. of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	No. of families rehoused 3/11/55 - 31/12/67	No. of properties demolished to 31/12/67
	'Pink'	'Grey'				
b/f	718	17	-	-	655	729
West Ward No. 7 (Collins Street) Clearance Order 1963	25	-	12/2/63	8/11/63	24	25
South East Ward No. 1 (Bridge Street) Compulsory Purchase Order 1963	27	1	12/3/63	14/1/64	24	28
West Central Ward No. 5 (Derby Street/ Grosvenor Street) Compulsory Purchase Order 1963	54	10	12/11/63	12/1/65	52	64
Borough of Crewe No. 14 (Mill Street/ Station Street) Compulsory Purchase Order 1965	210	40	12/1/65	2/12/66	152	151
Borough of Crewe No. 52 (Broom Street/ Jackson Street) Clearance Order 1965	68	-	9/11/65	4/1/67	14	-
Borough of Crewe No. 53 (Underwood Lane) Clearance Order 1965	6	-	9/11/65	4/1/67	2	-
Borough of Crewe No. 54 (Samuel Street) Clearance Order 1965	6	-	9/11/65	14/9/67	1	-
Borough of Crewe No. 55 (Samuel Street) Clearance Order 1965	8	-	9/11/65	14/9/67	4	-
c/f	1122	68	-	-	928	997

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	No. of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	No. of families rehoused 3/11/55 - 31/12/67	No. of properties demolished to 31/12/67
	'Pink'	'Grey'				
b/f	1122	68	-	-	928	997
Borough of Crewe No. 56 (Barnfield) Compulsory Purchase Order 1966	25	1	9/11/65	4/1/67	4	-
Borough of Crewe No. 57 (Stanley Street) Clearance Order 1965	2	-	9/11/65	4/1/67	1	-
Borough of Crewe No. 58 (Camden Street) Clearance Order 1965	5	-	9/11/65	14/9/67	1	-
Borough of Crewe No. 59 (Thomas Street) Clearance Order 1965	4	-	9/11/65	14/9/67	3	-
Borough of Crewe No. 60 (William Street) Clearance Order 1965	15	-	9/11/65	14/9/67	7	-
Borough of Crewe No. 61 (William Street) Clearance Order 1965	26	-	9/11/65	14/9/67	20	12
Borough of Crewe No. 62 (North Street) Clearance Order 1965	2	-	9/11/65	14/9/67	-	-
Borough of Crewe No. 63 (Station Street) Clearance Order 1966	2	-	8/2/66	2/12/66	-	-
Borough of Crewe No. 64 (Mill Street) Clearance Order 1967	8	-	-	-	-	-
c/f	1211	69	-	-	964	1009

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	No. of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	No. of families rehoused 3/11/55 - 31/12/67	No. of properties demolished to 31/12/67
	'Pink'	'Grey'				
b/f	1211	69	-	-	964	1009
Borough of Crewe No. 16 (Donkinson's Oak) Compulsory Purchase Order 1967	14	-	8/8/67	-	-	-
Borough of Crewe No. 17 (Albert Street) Compulsory Purchase Order 1967	28	3	7/11/67	-	-	-
Borough of Crewe No. 18 (Flag Lane) Compulsory Purchase Order, 1967	3	-	7/11/67	-	-	-
2. AREAS DEALT WITH INFORMALLY WITH THE APPROVAL OF THE MINISTRY OF HOUSING AND LOCAL GOVERNMENT						
Park Place	67	-	19/4/56	9/7/57	65	67
3. HOUSES BELONGING TO THE CORPORATION AND DEMOLISHED WITH APPROVAL OF THE MINISTRY OF HOUSING AND LOCAL GOVERNMENT						
During 1954	6	-	-	-	3	6
During 1956	3	-	-	-	2	3
During 1958	4	-	-	-	4	4
During 1959	3	-	-	-	2	3
During 1960	4	-	-	-	3	3
During 1961	1	-	-	-	1	1
During 1964	3	-	-	-	1	3
During 1967	1	-	-	-	-	-
c/f	1348	72	-	-	1045	1099

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	No. of Properties in Area		Date of Represent-ation of Report	Date of Confirm-ation of Order	No. of families rehoused 3/11/55 - 31/12/67	No. of Properties demolished to 31/12/67
	'Pink'	'Grey'				
b/f	1348	72	-	-	1045	1099
4. **HOUSES DEALT WITH BY INDIVIDUAL DEMOLITION OR CLOSING**						
(a) Demolition Orders:						
During 1955	1	-	-	-	1	1
During 1956	4	-	-	-	3	4
During 1957	9	-	-	-	6	9
During 1958	11	-	-	-	9	11
During 1959	14	-	-	-	12	14
During 1960	3	-	-	-	2	3
During 1961	1	-	-	-	-	1
During 1963	5	-	-	-	4	5
During 1964	2	-	-	-	2	2
During 1965	1	-	-	-	-	1
During 1966	3	-	-	-	1	-
During 1967	8	-	-	-	5	-
(b) Closing Orders:						
During 1959	1	-	-	-	1	-
During 1960	4	-	-	-	4	2
During 1962	3	-	-	-	3	-
During 1963	2	-	-	-	2	-
During 1964	1	-	-	-	1	-
c/f	1421	72	-	-	1101	1152

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	No. of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	No. of families rehoused 3/11/55 - 31/12/67	No. of properties demolished to 31/12/67
	'Pink'	'Grey'				
b/f	1421	72	-	-	1101	1152
4. HOUSES DEALT WITH BY INDIVIDUAL DEMOLITION OR CLOSING						
(b) Closing Orders: Continued						
During 1965	2	-	-	-	3	-
During 1966	3	-	-	-	3	-
During 1967	3	-	-	-	2	-
	1429	72	-	-	1109	1152

IMPROVEMENT GRANTS

1.	Number of applications received to 31st December 1966	460
	Number of applications received during the year	41
	Total applications received to 31st December 1967	501
2.	Number of applications approved to 31st December 1966	459
	Number of applications approved during the year	40
	Total applications approved to 31st December 1967	499
3.	Number of applications withdrawn to 31st December 1966	16
	Number of applications withdrawn during the year	5
	Total applications withdrawn to 31st December 1967	21
4.	Number of cases where work was completed by 31st December 1966	407
	Number of cases where work was completed during the year	47
	Total number of cases where work was completed by 31st December 1967	454
5.	Expenditure ranking for grant approved to 31st December 1966	£70,620. 3. 11d.
	Expenditure ranking for grant approved during the year	6,658. 1. 5d.
	Total expenditure ranking for grant approved to 31st December 1967	£77,278. 5. 4d.
6.	Expenditure on works and repairs not ranking for grant in cases approved to 31st December 1966	£26,277. 4. 8d.
	Expenditure on works and repairs not ranking for grant in cases approved during the year	£ 2,232.12. 10d.
	Total expenditure on works and repairs not ranking for grant in cases approved to 31st December 1966	£28,509.17. 6d.
7.	Average grant per house	£77. 8. 8d.
8.	Number of grants repaid to 31st December 1967	25
	Total amount of grant repaid	£1,177. 3. 1d.

NOTE: The above expenditure figures include the figures in respect of the applications approved but later withdrawn or repaid.

CERTIFICATES OF DISREPAIR

Rent Act 1957

Part I - Application for Certificates of Disrepair

Number of applications for certificates	5
Number of decisions not to issue certificates	NIL
Number of decisions to issue certificates -	
(a) in respect of some but not all defects	4
(b) in respect of all defects	1
Number of undertakings given by landlords under paragraph 5 of the first schedule	2
Number of undertakings refused by Local Authority under proviso to paragraph 5 of the first schedule	NIL
Number of certificates issued	3

Part II - Applications for Cancellations of Certificates

Number of applications by landlords to Local Authority for cancellation of certificates	2
Number of objections by tenants to cancellation of certificates	NIL
Number of decisions by Local Authority to cancel in spite of tenant's objections	NIL
Number of certificates cancelled by Local Authority	2

FACTORIES ACT 1961

1. INSPECTIONS for purposes of provisions as to health (including inspections made by Public Health Inspectors).

Particulars	Number on Register	Inspec-tions	Number of Written Notices	Number of Occupiers Prosecuted
(i) Factories in which Sections 1, 2, 3, 4 and 6 are to be enforced by Local Authorities	6	11	-	-
(ii) Factories not included in (i) in which Section 7 is enforced by the Local Authority	152	77	3	-
(iii) Other premises in which Section 7 is enforced by the Local Authority (excluding out-workers premises)	15	8	-	-
TOTAL	173	96	3	-

2. CASES in which defects were found

Particulars	Number of cases in which defects were found			
	Found	Remedied	Referred to H.M. Inspector	Referred by H.M. Inspector
Sanitary Conveniences (S.7)				
(a) Insufficient	-	-	-	-
(b) Unsuitable or defective	3	2	-	1
(c) Not separate for sexes	-	-	-	-
TOTAL	3	2	-	1

3. OUTWORKERS. Lists required by Section 110 were received relating to 62 outworkers all engaged in making wearing apparel.

Offices, Shops and Railway Premises Act, 1963

The above mentioned Act which came into force during 1964 contained provisions relating to the health, safety and welfare of employees in offices, shops and certain other premises. The following tables, have been abstracted from the annual report submitted to the Ministry of Labour.

Registration and General Inspections

Class of premises	Number of premises registered during the year	Total number of Registered premises at end of year	Number of registered premises receiving a general inspection during the year
Offices	8	131	31
Retail shops	16	386	101
Wholesale shops, warehouses	3	21	13
Catering establishments open to the public, canteens	4	59	17
Fuel storage depots	-	2	-
TOTALS	31	599	162

NUMBER OF VISITS OF ALL KINDS BY INSPECTORS TO REGISTERED PREMISES - 377

Analysis of persons employed in Registered Premises

Class of workplace	Number of persons employed
Offices	963
Retail shops	2,040
Wholesale departments, warehouses	255
Catering establishments open to the public	452
Canteens	20
Fuel storage depots	18
Total	3,748
Total Males	1,345
Total Females	2,403

Exemptions and Prosecutions

No exemptions were applied for during the year, nor prosecution instituted.

Contraventions found

Premises requiring cleansing in some form	13
Provision of heating and/or thermometer	24
Inadequate ventilation	5
Defective or inadequate sanitary accommodation	27
Defective or inadequate washing facilities	17
Inadequate drinking water facilities	3
Absence of adequate facilities for storage of outdoor clothing...	3
Lack of adequate eating facilities in shops	1
Defective floors, passages or staircases	7
Lack of First Aid equipment	34
Overcrowding	-
Inadequate lighting	4
Sitting facilities	-
Fencing exposed parts of machinery	2
No abstract posted	56

Accidents

20 accidents were reported during the year, details of which are given in the following tables.

Reported Accidents

Workplace	Number Reported	Total number investigated	Action Recommended			No Action
			Prosecution	Formal Warning	Informal Advice	
Offices	-	-	-	-	-	-
Retail shops	17	17	-	-	-	17
Wholesale shops, warehouses	2	2	-	-	1	1
Catering establishments open to public, canteens	1	1	-	-	-	1
Fuel Storage Depots	-	-	-	-	-	-
TOTALS	20	20	-	-	1	19

Analysis of Reported Accidents

	Offices	Retail shops	Wholesale Warehouses	Catering Establishments	Fuel Storage Depots
Machinery	-	1	-	-	-
Transport	-	-	-	-	-
Hand Tools	-	2	-	-	-
Falls of persons	-	5	-	-	-
Stepping on or striking against object or person	-	1	1	-	-
Handling goods	-	5	1	1	-
Struck by falling object	-	1	-	-	-
Not otherwise specified	-	2	-	-	-
TOTALS	-	17	2	1	-

RODENT CONTROL

The Corporation employ two full-time rodent operators and the extermination methods employed are poisoning, gassing and trapping. The following table summarises the work carried out:-

	Type of Property			Total
	Local Auth.	Dwell. Hses.	Bus. Prem.	
NUMBER OF PROPERTIES INSPECTED:				
(1) Primary Inspections:				
(a) as a result of notification	19	260	49	328
(b) otherwise	-	225	-	225
(2) Re-inspections:				
(a) as a result of notification	6	18	7	31
(b) otherwise	-	11	-	11
Total Properties inspected	25	514	56	595
Number of Properties found to be infested by RATS:				
(1) Primary Inspections:				
(a) Major	-	-	-	-
(b) Minor	17	362	25	404
(2) Re-infestations:				
(a) Major	-	-	-	-
(b) Minor	4	24	2	30
Number of Properties found to be infested by MICE:				
(1) Primary Inspections	3	115	24	142
(2) Re-inspections	1	5	5	11
Total infestations found	25	506	56	587
Number of infested Properties treated by Local Authority:				
(1) Primary Treatments:				
(a) for RATS	17	313	21	351
(b) for MICE	3	111	24	138
(2) Treatments for re-infestation				
(a) for RATS	5	34	2	41
(b) for MICE	-	5	4	9
Total Treatments...	25	463	51	539

NOTE: A treatment means a complete treatment for the destruction of rats and mice and includes not only the initial treatment, but when necessary, post-baiting and follow-up treatment.

RODENT CONTROL, Cont.

Following the treatments carried out, 618 rats and 372 mice were picked up, whilst the estimated kill was 1,971 rats and 893 mice.

During the year the rodent operators paid 5,482 visits in connection with the inspection and treatment of premises.

Two maintenance treatments of the sewers were also carried out. 690 manholes were baited and 493 takes of poison bait were recorded, showing an estimated kill of 1,600 rats.

PET ANIMALS ACT 1951

There are seven premises in the Borough licensed for the sale of pet animals. All these premises comply with the recommended conditions of the Royal Society for the Prevention of Cruelty to Animals, which were adopted by the Council.

INSPECTION AND SUPERVISION OF FOOD

FOOD HYGIENE

Food hygiene has continued to receive the attention of the public health inspectorate and 964 visits have been made for this purpose.

All plans of food premises submitted to the Borough Engineer are scrutinised for compliance with the various Acts and Regulations and where amendments are necessary the owner or architect is advised and corrections made before submission to the appropriate Committees. This system has worked very well indeed and architects and other have co-operated fully with the Department.

The following is a list of the various types of food premises in the Borough.

Number and type of food premises

Premises requiring registration

For the manufacture of Ice Cream	3
For the storage and sale of Ice Cream	251
For the preparation and manufacture of sausages or pressed, potted or preserved meat, etc.	20

FOOD HYGIENE REGULATIONS 1960

Type of premises	Number	Premises complying with Regulation 16	Premises complying with Regulation 19
Fried Fish Shops	38	37	38
Wet Fish Shops	3	3	3
Bakehouses	9	9	9
Butchers	45	44	45
Restaurants and Cafes	30	30	30
School Canteens	9	9	9
Factory Canteens	20	20	20
Licensed Premises	111	111	111
Grocery and Provisions	123	117	121
Cakes and Confectionery	16	16	16
Sweets	29	29	29
Green Grocery	29	29	29
TOTALS	462	454	460

FOOD INSPECTION

There are no slaughterhouses in the Borough.

The following table shows the foods condemned during the year on account of decomposition, etc.

TINNED FOODS

	lbs	
Meat	649	
Fruit	20	
Vegetables	40	
Miscellaneous	34	743 lbs

OTHER FOODS

Meat	1088	
Fish	330	
Fruit	465	
Vegetables	177	
Miscellaneous	673	
Poultry	450	3183 lbs
	TOTAL	3926 lbs

POULTRY INSPECTION

There is 1 poultry processing establishment within the Borough.

The number of birds processed during the year was as follows:

Broilers	72,795
Capons etc	11,662
Hens	123,892
Turkeys	2,688
Ducks	1,535
Geese	180

Regular inspections are made of the premises to maintain a general oversight of production conditions and the methods of inspection of suspect poultry.

Approximately 0.4% of the birds, principally hens, were rejected as unfit for human consumption and the approximate weight was 2,544 lbs.

ICE CREAM

Ice cream was manufactured at three premises in the Borough in 1967 while 251 premises were registered for the storage and sale of ice cream. A complete cold mix is used at two of the manufacturing premises in the Borough and pasteurisation at the other.

20 samples of ice cream were submitted for bacteriological examination and the results of the examinations are shown below.

Ice Cream	Methylene Blue Test Grading				TOTAL
	Grade I	Grade 2	Grade 3	Grade 4	
Samples taken at manufacturing premises	6	4	2	3	15
Samples taken from retailers in the Borough	2	3	-	-	5
TOTALS	8	7	2	3	20

SLAUGHTER OF ANIMALS ACT 1958

The number of slaughtermen's licences issued in 1967 was 9.

KNACKER'S YARD

There is one Knacker's Yard in the Borough. These premises are not licensed for the slaughter of horses.

MILK

Designated Milk

Dealer's pre-packed licences	122

Pasteurised Milk

Establishments at which milk is pasteurised ...	Nil

MILK SAMPLING

During the year, 162 samples of designated milks were taken for bacteriological examination and the following table provides details of the results.

No. of Samples	Description of Milk	Methylene Blue Test		Phosphatase Test		Turbidity Test	
		Passed	Failed	Passed	Failed	Passed	Failed
8	Untreated	8	-	-	-	-	-
132	Pasteurised	119	6	132	-	-	-
22	Sterilised	-	-	-	-	22	-
162	Totals	127	6	132	-	22	-

Brucella Abortus

2 samples of untreated milk were submitted to the Ring Test and both proved negative.

FOOD SAMPLES TAKEN FOR BACTERIOLOGICAL EXAMINATION

72 samples were taken during the year as follows:

48 of hot coffee, chocolate or tea - 6 of which were unsatisfactory due to the presence of faecal coli

17 of hot soup - 3 of which were also unsatisfactory due to the presence of faecal coli

4 of cream cakes, 1 of which showed the presence of faecal coli

1 of corned beef and 2 buns which were satisfactory.

FOOD AND DRUGS ACT 1955

During the year 20 formal and 146 informal samples were submitted to the Public Analyst for analysis.

Nature of Samples	No. of Samples		Number of samples adulterated or not genuine
	Informal	Formal	
Milk	8	8	1
Meat and Meat Products	34	-	3
Fish and Fish Products	12	-	-
General Groceries	60	-	3
Preserves	6	-	-
Flour Confectionery	7	-	2
Sugar Confectionery	8	-	-
Ice Cream	2	-	-
Cordials	2	-	-
Vegetables	2	-	-
Medicines etc	2	-	-
Beer and Spirits	3	12	-
	146	20	9
	166		

In addition to the above samples which were submitted to the Public Analyst 15 additional samples were brought to the office.

As part of the National Survey for the detection of pesticidal residues in food, 2 samples were also submitted to the Public Analyst both proving negative.

FOOD AND DRUGS ACT 1955

The table below shows details of the samples found not to be genuine or otherwise unsatisfactory and of the relative action taken.

Sample Number	Article	Adulteration or other irregularity	Action Taken
3196	Oats	Contained insect	Manufacturer cautioned
3197	Chicken Pie	Contained foreign object	Manufacturer cautioned
3225	Tin of Tomatoes	Contained insect larva	Manufacturer cautioned
3236	Vichysoise Soup	Slightly deficient in butter fat	Manufacturer cautioned
3241	Milk	Contained piece of cement	Vendor cautioned
3242	Milk	Contained portion of slug	Vendor cautioned
3243	Bread	Contained pieces of iron scale	Manufacturer cautioned
3264	Meat and Potato Pie	Contained insect	Manufacturer cautioned
3265	Milk	Dirty bottle	Vendor cautioned
3281	Sausage Rolls	Mouldy	Vendor cautioned
3282	Milk	Dirty bottle	Vendor cautioned
3283	Milk cob	Contained spider beetle	Manufacturer cautioned
3284	Black Pudding	Mouldy	Vendor cautioned
3285	Bacon	Contained maggot	Vendor cautioned
3286	Sausage	Contained piece of rubber	Manufacturer cautioned
3287	Doughnut	Contained piece of bacon rind	Manufacturer cautioned
3306	Spam Spread	Contained pieces of iron scale	Manufacturer cautioned
3328	Tin of Pineapple Slices	Contained moth	Manufacturer cautioned

Sample Number	Article	Adulteration or other irregularity	Action Taken
3329	Baby food cereal	Contained insects	Manufacturer fined £25
3330	Milk	Dirty bottle	Vendor fined £25
3331	Sausage	Contained piece of metal	Manufacturer cautioned
3332	Tin of Peas	Contained insect	Manufacturer cautioned
3349	Apricot Custard	Mouldy	Manufacturer cautioned
3350	Bacon	Unsound	Vendor cautioned

ATMOSPHERIC POLLUTION

The implementation of the provisions of the Clean Air Act, 1956 once again occupied a proportion of the time of the public health inspectorate and 2,993 inspections were made under the Act.

3 notifications were received of 'intention to install' furnaces under Section 3 of the Act and 2 applications were received for 'prior approval'.

The Borough of Crewe No. 1 (Marshfield Bank and Wistaston Green) Smoke Control Order, 1960 covering some 270 acres on the westerly side of the borough, and affecting some 1,085 properties came into operation on the 1st October, 1962.

A second order, known as the Borough of Crewe No. 2 (Wistaston Green and The Valley) Smoke Control Order, 1964, which covers 208 acres and 1,028 properties in an area adjacent to and to the east of the first area, became operative on the 1st July, 1966.

The Borough of Crewe No. 3 (Ruskin Park) Smoke Control Order, 1966 became operative on the 1st July, 1967. This Order covers 224 acres and 1,670 properties in an area adjacent to and to the south east of No. 2 area.

On the 1st March, 1967 the Council made the Borough of Crewe No. 4 (Nantwich Road South) Smoke Control Order, 1967. This order covered 235 acres and 1,793 properties. A Public Inquiry was held in respect of this Order on the 24th August, 1967 and it was eventually confirmed in 1968, to become operative on the 1st July, 1969.

The department has, since 1949, in co-operation with the Ministry of Technology, made regular monthly recordings of the degree of air pollution throughout the borough. The analyses of the readings of the various stations are shown in the appended tables and graphs.

In 1961, Crewe was selected as one of 120 towns to take part in a National Survey of Atmospheric Pollution and five additional sets of instruments have been installed at particular sites in the district.

The sites selected cover five types of district in accordance with the recommendations of the Ministry of Technology as follows:

		Crewe Site
(a)	Residential area with a high population density	Stalbridge Road Clinic
(b)	Residential area with a low population density	College Annexe, Railton Avenue
(c)	Industrial area	Railway Works
(d)	Commercial area	British Railway Laboratory, Town Hall
(e)	Smoke Control area	Sewage Works

The results obtained are collated by the Warren Spring Laboratory of the Ministry of Technology.

VOLUMETRIC CONCENTRATION OF SMOKE IN THE ATMOSPHERE - YEAR 1967

Average daily concentration expressed as microgrammes per cubic metre

	A Residential Area, high population density			B Residential Area, low population density			C Industrial Area			D Commercial Area			E Smoke Control Area		
	1965	1966	1967	1965	1966	1967	1965	1966	1967	1965	1966	1967	1965	1966	1967
Jan.	375	295	265	201	250	DISCONTINUED	203	296	*	284	290	228	114	164	151
Feb.	434	220	189	247	*		364	135	71	351	154	123	141	91	*
March	323	179	125	181	81		272	100	*	243	130	*	99	37	21
April	*	*	*	*	*		*	*	92	*	*	106	*	*	37
May	125	90	*	58	41		94	64	57	110	69	78	31	19	27
June	80	60	48	34	24		68	47	42	70	55	*	24	21	14
July	78	63	32	28	*		72	*	21	64	55	*	19	18	9
August	102	71	62	42	*		83	*	*	82	69	53	29	29	19
Sept.	157	145	115	88	*		107	*	67	129	133	85	43	85	30
October	260	240	110	171	*		203	126	41	223	190	73	108	107	16
Nov.	283	248	317	199	*		233	*	168	257	183	225	112	117	104
Dec.	*	197	319	*	*		*	*	171	183	*	*	*	*	94

* No results obtained

VOLUMETRIC CONCENTRATION OF SULPHUR DIOXIDE IN THE ATMOSPHERE - YEAR 1967

Average daily concentration expressed as microgrammes per cubic metre

	A Residential Area, high population density			B Residential Area, low population density			C Industrial Area			D Commercial Area			E Smoke Control Area		
	1965	1966	1967	1965	1966	1967	1965	1966	1967	1965	1966	1967	1965	1966	1967
Jan.	268	186	145	217	248	DISCONTINUED	277	302	*	300	321	282	142	217	166
Feb.	353	114	109	254	*		384	235	151	402	176	154	180	127	*
March	266	101	110	223	97		268	229	*	284	167	*	158	76	39
April	*	*	*	*	*		*	*	133	*	*	150	*	*	85
May	123	60	*	92	71		182	186	86	135	81	81	68	42	51
June	107	75	73	68	43		207	135	116	106	74	*	70	*	47
July	101	65	50	61	*		131	*	81	96	62	*	59	35	37
August	99	65	40	59	*		146	*	*	101	68	44	60	36	26
Sept.	113	75	57	98	*		120	*	103	127	103	60	71	56	34
October	168	91	46	176	*		227	131	84	231	163	55	131	100	22
Nov.	164	150	141	183	*		270	*	195	257	209	142	127	132	83
Dec.	*	93	140	*	*		*	*	133	213	*	*	*	*	66

* No results obtained

ATMOSPHERIC POLLUTION - SMOKE DEPOSITED MATTER 1967

Monthly Deposits in Tons per Square Mile

	ASHBANK CO-OP STORES			IMPERIAL CHAMBERS			SEWAGE WORKS			ELM DRIVE			CREWE GATES FARM		
	1965	1966	1967	1965	1966	1967	1965	1966	1967	1965	1966	1967	1965	1966	1967
Jan.	12.27	18.33	12.74	13.21	17.99	13.30	8.27	8.61	7.60	18.75	11.37	*	10.19	6.40	6.91
Feb.	11.80	12.56	13.05	13.89	16.41	10.77	6.56	8.58	8.79	11.55	12.26	15.29	8.23	9.38	9.09
March	14.18	14.33	17.81	15.89	16.78	14.15	8.70	7.90	7.85	11.99	13.62	14.53	11.20	11.72	11.75
April	13.38	10.57	11.58	15.78	11.21	14.06	9.03	14.59	10.20	11.97	13.66	24.14	7.77	*	8.24
May	14.57	12.35	19.19	13.93	13.82	17.55	6.13	6.14	*	11.78	17.91	19.64	9.97	10.91	15.45
June	12.57	10.12	11.70	12.79	11.95	14.10	10.86	11.03	8.70	11.01	9.62	15.00	11.88	7.69	*
July	15.75	13.19	11.20	17.44	12.17	10.85	13.52	7.75	8.00	12.37	10.84	18.56	12.19	9.39	11.84
August	13.78	10.82	7.20	13.31	10.27	6.90	10.26	6.29	22.70	9.32	7.66	8.70	12.25	8.30	4.50
Sept.	15.40	9.27	11.76	14.94	10.74	10.08	7.61	6.93	11.48	27.13	7.71	5.60	9.37	5.26	7.84
October	9.16	12.02	10.56	10.25	12.35	9.92	5.49	6.75	11.52	10.75	8.47	9.28	8.46	11.34	12.48
Nov.	14.94	16.62	10.80	19.15	15.23	10.80	12.99	20.28	8.70	29.26	13.87	15.60	10.60	*	*
Dec.	10.58	*	9.92	15.85	8.87	10.85	5.89	20.41	8.37	11.14	20.90	16.12	9.76	15.47	*
TOTAL	158.38	140.18	147.51	176.43	157.79	143.33	105.31	125.26	113.91	177.02	147.89	162.46	121.87	95.36	88.10
MONTHLY AVERAGE	13.20	12.74	12.29	14.70	13.15	11.94	8.78	10.44	10.36	14.75	12.32	14.77	10.16	9.59	9.79

* No result obtained owing to damage to equipment.

ATMOSPHERIC POLLUTION - YEAR 1967.

Sulphur Dioxide by the Lead Peroxide Method
Results expressed as mg./SO_3/day/100 sq.c.m. of Batch
"A" Lead Peroxide exposed under a louvered cover

	ASHBANK CO-OP STORES			IMPERIAL CHAMBERS			SEWAGE WORKS			ELM DRIVE			CREWE GATES FARM		
	1965	1966	1967	1965	1966	1967	1965	1966	1967	1965	1966	1967	1965	1966	1967
Jan.	3.01	*	1.38	3.08	*	1.50	1.04	*	0.49	1.69	*	0.60	1.94	*	1.10
Feb.	2.49	1.74	2.06	3.62	1.97	2.06	1.24	1.24	0.75	1.47	1.02	1.21	1.82	1.13	1.46
March.	2.91	1.44	0.73	3.63	2.21	1.58	1.81	0.50	0.03	2.04	1.24	0.91	1.97	1.60	1.10
April.	3.12	1.97	1.51	3.89	1.46	1.83	1.67	0.75	0.72	2.52	0.71	0.94	2.23	0.92	0.95
May.	1.48	0.79	1.33	1.68	1.19	1.66	0.52	0.89	0.51	0.75	0.95	0.73	1.13	0.88	0.67
June.	0.87	0.87	0.80	1.32	0.80	0.77	0.37	0.38	0.33	0.63	0.45	0.22	0.69	0.62	0.26
July.	0.86	0.64	0.51	1.54	0.77	0.45	0.68	0.39	0.14	0.76	0.22	0.23	0.63	0.49	0.30
August.	0.96	0.82	0.45	1.85	0.73	1.45	0.44	0.63	0.40	0.48	0.56	0.78	0.39	0.49	0.53
Sept.	1.51	1.09	0.94	1.68	0.75	0.93	0.48	0.08	0.42	0.79	0.21	0.37	1.02	0.41	0.50
October.	1.16	0.83	0.44	2.20	0.74	0.45	1.08	0.47	*	1.14	0.70	0.48	1.13	0.72	0.48
Nov.	1.79	1.64	2.28	2.01	2.16	2.61	1.13	0.31	1.14	1.43	0.94	1.69	1.42	1.12	*
Dec.	1.72	1.72	1.10	1.74	2.22	1.40	0.92	0.37	0.54	1.04	1.00	1.11	1.06	1.19	*
TOTAL	21.88	13.55	13.53	28.24	15.00	16.69	11.38	6.09	5.47	14.74	8.00	9.27	15.43	9.57	7.35
MONTHLY AVERAGE	1.82	1.23	1.13	2.35	1.36	1.39	0.95	0.55	0.50	1.23	0.73	0.77	1.29	0.87	0.74

*No results obtained

ATMOSPHERIC POLLUTION

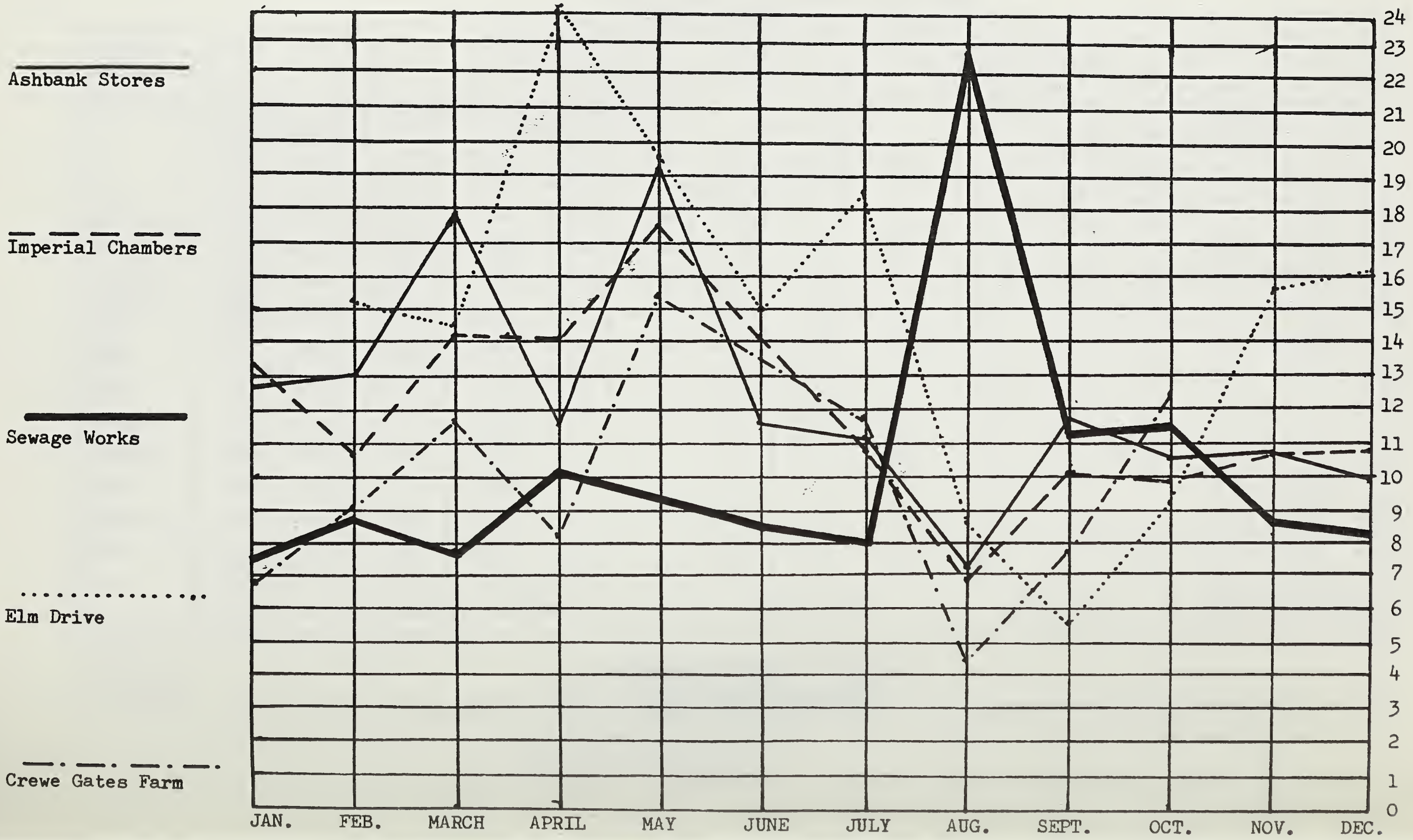
Monthly Rainfall in Inches

	ASHBANK CO-OP STORES			IMPERIAL CHAMBERS			SEWAGE WORKS			ELM DRIVE			CREWE GATES FARM		
	1965	1966	1967	1965	1966	1967	1965	1966	1967	1965	1966	1967	1965	1966	1967
Jan.	2.54	1.28	1.62	2.50	1.18	1.40	2.71	1.39	1.65	2.95	1.50	*	2.25	1.32	1.52
Feb.	0.45	2.67	2.00	0.42	2.14	1.41	0.48	2.66	2.06	0.57	2.37	2.21	0.46	2.70	1.84
March	2.10	1.24	1.37	1.92	1.36	1.51	2.23	1.40	1.71	2.32	1.49	1.49	2.15	1.26	1.44
April	1.91	2.90	0.92	1.88	3.40	0.81	2.12	2.63	0.96	2.32	1.49	1.16	2.10	*	1.09
May	3.35	1.86	4.41	2.72	1.72	4.00	3.00	2.63	*	3.01	2.19	4.51	2.76	2.15	4.33
June	3.05	2.90	1.50	2.65	3.14	2.10	3.22	3.95	1.80	3.28	3.91	1.50	2.93	2.98	*
July	3.58	2.32	1.60	2.87	2.20	0.96	3.41	2.72	1.60	3.35	2.69	1.60	3.28	2.33	0.96
August	2.86	2.92	1.80	2.53	3.10	1.80	2.46	3.42	2.10	2.11	3.21	1.80	2.85	3.80	1.50
Sept.	5.13	1.48	3.19	4.85	1.36	2.90	5.49	0.35	3.48	5.46	1.53	3.19	5.15	1.56	3.19
October	0.91	3.50	4.80	0.82	3.16	4.80	1.05	3.57	5.12	1.13	3.06	4.80	0.91	4.11	4.80
Nov.	2.27	1.95	2.40	1.95	1.57	2.40	2.52	1.89	2.40	2.73	2.26	2.40	2.17	*	*
Dec.	3.92	4.09	2.97	4.86	1.46	2.97	4.76	4.53	3.30	4.53	4.27	3.30	4.30	8.87	*
TOTAL	32.07	29.11	28.58	29.97	25.79	27.06	33.45	30.62	26.18	33.76	30.69	27.96	31.31	26.04	20.67
MONTHLY AVERAGE	2.67	2.43	2.38	2.50	2.15	2.26	2.79	2.55	2.38	2.80	2.56	2.54	2.61	2.17	2.30

GRAPH I

ATMOSPHERIC POLLUTION - SMOKE DEPOSITED MATTER 1967

Monthly Deposits in Tons per Square Mile



GRAPH II

ATMOSPHERIC POLLUTION - SULPHUR DIOXIDE DEPOSITS 1967

Results expressed as $Mg.SO_3$/Day/100 sq.cm. of Batch "A" Lead Peroxide exposed under a louvered cover